

Incremental Model

Step 1

- Start with the backend layer. First, create a class for a user and create children classes for students, instructors, and admins. Add properties and methods specific to each class.

Step 2

- Create a database that contains a table which stores course details, and information on all students and instructors. Each student's record must store information on what classes the student is registered for and each instructor's record must store information on what classes the instructor is teaching.

Step 3

- Create objects for students in the backend layer and using a method within the student class, register for a course. This course must be saved in that student's record in the database. Try the same for other students to check if the backend layer connects to the database.

Step 4

- Build a user interface in the form of a website. This website must show course details fetched from the database. This website should also have a button which a student can click to register for a course. Upon clicking this button, the backend layer must connect to the database and save the selected course in the student's record.